



Market Monitoring Newsletter

THE ESSENTIAL NEWS OF ROTOMOULDING WORLDWIDE

A very aesthetic rotomolded water recuperator.

Rainwater harvesting systems are very practical for storing water that can be used to water the garden during the summer, for example. But generally, they are tanks that are not very aesthetic, and therefore tend to distort the green and bucolic aspect of the garden.



However, there is a way to remedy this with the Bellijardin rainwater collector which takes the form of a terracotta jar. The Bellijardin rainwater harvesting system, from the French company Belli, is manufactured in France using the rotational molding process. It is made of UV resistant polyethylene, but its terracotta shape and color give the impression that it is made of terracotta. It is a good choice to give a Provencal style to the garden. It comes with everything needed to fix it near a gutter and allow it to collect rainwater efficiently. Its cover allows you to place a floral creation, which makes the rainwater collector even

more elegant in the garden. To access the water available in this massive container, a tap is fixed 37 cm above the base of the collector. A pump and hose can be attached if necessary. (News in French)

Support for hydrogen energy industry.

At the end of March, the National Development and Reform Commission and the National Energy Administration issued the “Medium and Long-Term Plan for the Development of Hydrogen Energy Industry (2021-2035)”, which pointed out the direction for the development of China's hydrogen energy industry.



The large-scale development of the hydrogen energy industry is directly related to the breakthrough of hydrogen energy storage and transportation technology. Improving the efficiency of hydrogen storage and transportation and reducing transportation costs are the current trends in the development of hydrogen storage and transportation. During the “Key Technical Forum of Hydrogen Storage & Transportation 2023”, which examined the development status and development trend of hydrogen energy storage and transportation equipment in China, the company Wenling Rising Sun Rotomolding Technology Co., Ltd. has provided a full range of

rotomolding services for more than 20 companies in the hydrogen energy industry. The company, which have rotomolding equipment, molds and related supporting solutions, provides strong support for the research and development, technological breakthrough and production of the new IV hydrogen tank liner!

https://risingsunroto.com/Industry_News/Support_for_hydrogen_energy_industry.html

Antek Madison buys Ohio site from LyondellBasell

Toronto-based Antek Madison Plastics, a resin distributor and recycler, has acquired a materials plant in Stryker, Ohio, from LyondellBasell Industries. The firm is using the Stryker site for pulverizing resins for rotational molding and blending resins for custom color and concentrates.



The site also offers warehousing and lab testing. The Stryker site covers 110,000 square feet and has 15 resin silos with total storage of 3 million pounds, as well as its own rail spur. LyondellBasell acquired the site as part of its deal for A. Schulman Inc. in 2018. It had been vacant for about a year until the Antek Madison offer. Antek Madison now plans to install more blending capacity in Stryker. Officials said that acquiring the Stryker plant allows Antek Madison to

“expand and diversify” their product offerings. They added that the firm can supply customers “with little to no lead time”, as a stocking facility that can serve Ontario, Quebec and the U.S. Midwest. Antek Madison began as a recycler in Toronto in 1994 and added a compounding site in Chicago in 2004. Its product mix includes regrind polyethylene, polypropylene, polystyrene, ABS, nylon and polycarbonate as well as reprocessed PP and nylon. The firm also supplies primes grades of PP, high density PE, PS, ABS, PC, polybutylene terephthalate and acetal.

Presentation of the Italian company RIMA-TEAM

RIMA TEAM S.r.l. designs and manufactures machines and accessories related to the world of rotational moulding.



The company's staff has twenty years of experience in the sector and its proven professionalism makes it the ideal partner to accompany its customers throughout the life cycle of their machines. RIMA-TEAM operates on the European market, developing also completely new machines and accessories, adapted to the particular needs of the customer, guaranteeing high quality products with the help of commercial partners whose reliability and experience are well known. (Video in Italian)

https://www.youtube.com/watch?v=0N9QkAG_Avg

Research & Patents

Electrothermic compositions and related composite materials and methods



Provided herein is an electrothermic composition formed with a network of conductive nanomaterial, for applications such as coatings, paints, inks, pastes, and films converting electrical energy to heat. Also provided herein are composite materials using the electrothermic composition.

The composite materials may be in the form of coatings, panels, and sheets. Also provided herein are related methods for making the electrothermic composition and composite materials as well as methods for preparing surfaces for heating using the composition and preparing surfaces, including rotomolding molds, for heating using the composite materials. Embodiments of the electrothermic compositions disclosed herein exhibit improved conductive stability with temperature changes and have been observed to have a much slower rate of deterioration than electrothermic compositions using primarily carbon. Further, the disclosed electrothermic compositions offer at least one of: improved consistency, ease of forming, ease of coating, increased uniform thickness, increased reliability, increased flexibility, and increased thermal stability. (Patent filed by Flexahopper Plastics Ltd)

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Hygienic pallet and methods of use and manufacture

A hygienic pallet suitable for use in food manufacturing is formed of a food-grade material. The pallet comprises a load supporting surface extending between pallet edges.



The pallet also comprises support lips that extend upward and away from the load supporting surface and, in a direction, away from a pallet edge. At least two support lips can be separated to form a channel between chamfered edges of the support lips. The support lips support molds or other objects on the load supporting surface during movement of the pallet, while the channels facilitate removal of debris and liquid during use or cleaning of the pallet. The pallet further comprises a section divider that divides stacking sections of the load supporting surface. Stackable molds for food manufacturing can be placed within the stacking areas to transport the mold stacks. A method of manufacturing the hygienic pallet comprises rotational molding. (Patent filed by The Hershey Company)

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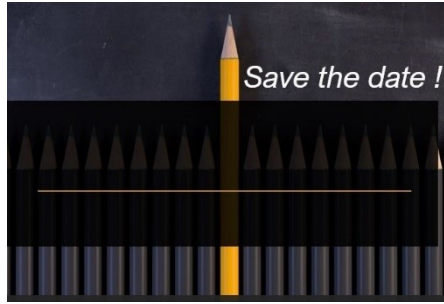
Rotomolding composition

A rotomolding composition comprises a blend of two polyethylenes: a well stabilized polyethylene; and a poorly stabilized polyethylene having a very low flow rate.



The poorly stabilized polyethylene is further characterized by having a large particle size (from 500 to 3000 microns). Rotomolded parts prepared from the composition have a rough inner surface. Polyurethane foam adheres well to this rough surface. (Patent filed by Nova Chemicals (International) S.A)

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10/11 May 2023

ITRO Technical Seminar

<https://it-ro.it/>

25 /27 June 2023

Rotomould23

<https://arm.memberjungle.com/rotomould>

1 /13 September 2023

Rototour Nordic 2023

<https://www.rototour.com/>

10/12 September 2023

ARMO World Conference 2023

<https://www.armo2023.com/>

28/29 November 2023

Master Class AFR

[Les évènements - AFR \[Association Francophone du Rotomoulage\]](#)

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